

(Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)

Department of Mathematics



Certificate Course on

Quantitative Aptitude





By

Department of Mathematics,

Late Ku. Durga K. Banmeru Science College, Lonar,

Dist. Buldana. Pin. 443302.

Jan-2020



(Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)

Department of Mathematics

Introduction

Quantitative Aptitude is the most important requisite for clearing any competitive exam. Quantitative aptitude test are becoming the norm for competitive exams in India. The aptitude questions essentially measures candidate mental numerical ability, logical formulae application & accuracy of calculation. It also test your mental alertness.

Department of Mathematics of our Late Ku. Durga K. Banmeru Science college, Lonar is organizing this certificate course in order to enhance students problem solving ability and help those to student who are preparing for any type of competitive examination.

Course Objectives

- To enhance problem solving skill among student.
- To improve the mathematical skill
- To help students who are preparing for any type competitive examination.
- Thinking critically & applying basic mathematics skill to interpret data.
- To prepare student for campus placement aptitude papers



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Department of Mathematics

Course Outcome

On successful completion of the course, the students will able to :

- Understand the basic concepts of quantitative ability.
- Solve campus placement aptitude papers covering quantitative aptitude.
- Compete in various competitive exams like MPSC , NET/SET, CAT, GATE (aptitude part)

Eligibility

• Student of B.sc IInd & IIIrd (Mathematics)

Admission Procedure

Interested candidates have to make application to the Mathematics Department. A minimum of 20 candidate are require for commencing the batch. First come first serve based admission will be there.

Fee Structure

➢ Rs. 500/- Per candidate.

Attendance

Minimum 75% Attendance is necessary in theory classes to appear for final examination.

Certification

The Candidate successfully completing the Course shall be awarded a Certificate in appropriate form.

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Department of Mathematics

<u>Syllabus</u>

Unit I: Basic of Quantitative Abilities

- Problems on Number System
- Problems on HCF & LCM
- Decimal & Fraction
- Simplification.

Unit II: Arithmatic Quantitative Abilities

- Averages
- Profit & Loss
- Ratio & Proportion
- Percentage

Unit III: General Aptitude Problems

- Number & Ages
- Problem on Trains
- Discount
- Partnership
- Mixture & Allegation

Unit IV:, **Problems Related to Time**

- Time & Work
- Time & Distance
- Calendar
- Clock

Unit V: Modern Maths

- Permutation & Combination
- Probability

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Department of Mathematics

Teaching & Examination Scheme

| Course | Teaching | Exam | Grade System |
|---------------|-------------|-----------------------------|-----------------|
| | workload | Theory | |
| Certificate | Total 30 | (100 Marks) | Marks |
| Course in | lectures of | | 100-81: 0 Grade |
| "Quantitative | One Hour | 50 Multiple Choice Question | 80-71: A Grade |
| Aptitude " | | (each for 2 Marks) | 70-61: B Grade |
| | | | 60-51: C Grade |
| | | | 50-00: Fail |
| | | | |

Recommended Books/ References

- 1) R. S. Aggarwal .Quantitative Aptitude for competitive examination .
- 2)Arun Sharma Quantitative Aptitude for CAT.
- 3) Arihant Publications Fast track objective Arithmetic.
- 4)Abhijit Guha/Mcgraw Hill education- Quantitative Aptitude for all competitive examination .



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Department of Mathematics

Organizing Department

Department of Mathematics, Late Ku. Durga K. Banmeru Science College, Lonar ,with kind guidance of **Principal Dr. Prakash K. Banmeru sir.**

> Course Coordinator- Prof. Saurabh P. Gaikwad

Asst. Prof. & HOD- Mathematics, Late Ku. Durga K. Banmeru Science College, Loni road, Lonar , Dist Buldana 9763055670

(Course Coordinator)

Principal



443302.

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Department of Mathematics

Certificate Course on Quantitative Aptitude

Result Sheet

| Sr. No | Name of Student | Internal Score (30) | Exam Score (70) | Total (100) | Remark | Grade |
|-----------|--------------------------------|------------------------|--------------------|----------------|--------|-------|
| 1 | Aariyan khan aslam khan | 30 | 44 / 70 | 74 | Pass | A |
| 2 | Nitesh Santosh Ingale | 30 | 38 / 70 | 68 | Pass | В |
| 3 | Ku.Neha Sahebrao Narwade | 30 | 58 / 70 | 88 | Pass | 0 |
| 4 | Ku.Bhavna Shekhar Bhavan | 30 | 64 / 70 | 94 | Pass | 0 |
| 5 | Ku.Mamta Santosh Khadakkar | 30 | 64 / 70 | 94 | Pass | 0 |
| 6 | Ku.Manisha Anil Sonune | 30 | 40 / 70 | 70 | Pass | В |
| 7 | Ku.Ashvini Baban Sarkate | 30 | 64 / 70 | 94 | Pass | 0 |
| 8 | Ku.Radhika Asaram Borkar | 30 | 58 / 70 | 88 | Pass | 0 |
| 9 | Ku.Siddhi Santosh Banmeru | 30 | 62 / 70 | 92 | Pass | 0 |
| 10 | Ku.Qaneta Mehvish Mirza Mehtab | 30 | 44 / 70 | 74 | Pass | A |
| 11 | Ku.Diksha Bhagwan Nagre | 30 | 62 / 70 | 92 | Pass | 0 |
| 12 | Ku.Ashwini Rameshwar Sanap | 30 | 50 / 70 | 80 | Pass | A |
| 13 | Ku.Vidya Pandurang Sangle | 30 | 68 / 70 | 88 | Pass | 0 |
| 14 | Ku. Vaishnavi Pandhari Sonune | 30 | 42 / 70 | 72 | Pass | A |
| 15 | Santosh Tanhaji Wable | 30 | 66 / 70 | 96 | Pass | 0 |
| 16 | Vaibhav Gajanan Ghayal | 30 | 70 / 70 | 100 | Pass | 0 |
| 17 | Laxman Rambhau pophale | 30 | 36 / 70 | 66 | Pass | В |
| 18 | Ku.Swati Dashrath Bodkhe | 30 | 58 / 70 | 88 | Pass | 0 |
| | | | | | | |









LATE KU DURGA K. BANMERU SCIENCE COLLEGE, LONAR, DIST. BULDANA. 443302.

(Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)

Department of Botany

Value Added Certificate Course in

"HERBAL MEDICINE"



By

Department of Botany,

Late Ku. Durga K. Banmeru Science College, Lonar, Dist. Buldana. Pin. 443302.

Dec, 2019

LONAR CRATER LAKE

(Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)

Department of Botany

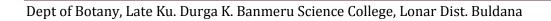
Course Objectives

- To develop the students for establishing the small scale Pharmaceutical Industry for production of Herbal Drugs.
- To encourage the students for Medicinal Plant farming.
- To inculcate the economic status of students.
- To conserve the traditional knowledge & folk medicine.
- To understand the advance instruments, formulation & its application in drug analysis.

Scope & Course Outcome

Upon completion of the course, the students shall be able to know the:

- Basic of Herbal Plant identification, plant parts, Classification of Drugs, Cultivation of Medicinal Plants, and Harvesting & Storage
- The course also covers the important aspects of ethno-medicine, traditional medicines & formulation, traditional system of therapy, preparation of herbal formulation.
- Ethno-medicine & folk medicine
- Knowledge of routinely used Ayurvedic & rare herbal drug plants & their parts
- Application & economic importance of Medicinal Plant
- Conservation strategies & sustainable utilization of Herbal Medicinal Plants.



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Department of Botany

Syllabus

Unit I: General Introduction & Identification of Local Herbal Medicine

Definition & History, scope of Herbal Medicine; System of Indian Medicines; Ayurveda, Homeopathy; Classification of crude drugs; Identification, local name, Botanical Name of Medicinal Plants.

Unit II: Traditional Uses of Herbal Medicine

Traditional knowledge & utility of some medicinal plants; Medicinally used plant parts: Roots, Stem, Barks, Leaves, Flowers, Fruits, Seeds; Ethno-medicine, Folk Medicine.

Unit III: Cultivation & Harvesting Management

Common cultivation Methods for local & rare herbal Medicinal Plants; Mass production of crude drugs; Harvesting of Medicinally used plant parts; Storage & Preservation.

Unit IV: Processing & formulation of Herbal Drugs

Introduction to Ayurvedic formulation with methods of preparation: Churna, Vati, Asava, Arishta, Taila & Bhasma; Preparation of Herbal Infusions: Decoctions, Lotions, Syrups, Poulties, Ointments, Oils.

Unit V: Application & Doses of Herbal Medicine

Methods of Disease Diagnosis & treatment; Application methods of common Herbal Medicinal Plants; Quality control & doses on particular diseases.

Unit VI: Conservation Strategies & Future Prospecting

Sustainable utility of Rare Herbal Plants, Conservation Strategies & Future Prospecting of Herbal Medicinal Plants.



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Department of Botany

Teaching & Examination Scheme

| Course | Teaching | Exam | | Grade System |
|-------------|-------------|-------------|-------------|-----------------|
| | workload | Theory | Practical | |
| | | (40 Marks) | (60 Marks) | |
| Certificate | 4 Lectures | 20 Multiple | 4 practical | Marks |
| Course in | 1 Practical | Choice | | 100-81: 0 Grade |
| "Herbal | per week | Question | | 80-71: A Grade |
| Medicine" | | (each for 2 | | 70-61: B Grade |
| | | Marks) | | 60-51: C Grade |
| | | | | 50-00: Fail |
| | | | | |

Recommended Books/ References

- Indian Medicinal Plants by Vaidya Ratnam & P.S. Varires, Arya Vaidya Sale vol-4
- Ayurvedic Pharmacology & Therapeutic uses of Medicinal plants by Vaidya V. M. Gogte
- Medicinal Plants of India by Lal S. N.
- Charak Samhita on Ayurvedic text by Govt. of India
- Handbook of Medicinal Herbs by S. Bhattacharya
- The ayurvedic Pharmacopia of India by Govt. of India vol-5
- Indian Medicinal Plants- An Illustrated Medical Dictionary
- Economic Botany by Pande B. P.
- Economic Botany by Sen S.
- Cultivation of Medicinal Plants by C. K. Atal & B. M. Kapoor
- Database on Medicinal Plants Used in Ayurveda by K.V. Billore, M.B. Velne, T.J. Dennis & B.G. Chaudhari
- Encyclopedia Of Herbal Medicine: 550 Herbs and Remedies for Common Ailments Hardcover by Andrew Chevallier
- Handbook Of Medicinal Plants by U. S. Bose, Oxford Book Company

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Department of Botany

- Medicinal Plants Chemistry And Properties by Daniel M., Oxford & IBH Publishing Co.
- Medicinal Plants of India by Neeru Mathur, RBSA Publishers
- Cultivation of Medicinal & Aromatic Crops by A. A. Farooqi & B.S. Sreeramu, University Press
- Handbook of Herbal Medicinal Plants by L.D. Kapoor, Herbal Reference Library
- Identification of Common Indian Medicinal Plants by V. N. Naik, Scientific Publisher, Jodhpur, India
- Ethnobotany & Medicinal Plants of India & Nepal by V. Singh, Scientific Publisher, Jodhpur, India

HOD

Principal





LATE KU DURGA K. BANMERU SCIENCE COLLEGE, LONAR, DIST. BULDANA. 443302.

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Department of Botany



Value Added Certificate Course in

"HERBAL MEDICINE"

Students Enrolled for Certificate Course

AY 2019-20

| Sr. No. | Name of Student | Class |
|-----------|---------------------------|------------|
| 01 | Akash Kale | B. Sc. III |
| 02 | Vaibhav Hade | B. Sc. III |
| 03 | Akshay Gelda | B. Sc. III |
| 04 | Arati Ganjare | B. Sc. III |
| 05 | Avantika Nichang | B. Sc. III |
| 06 | Azqua Sabeen | B. Sc. III |
| 07 | Dhanashree Dole | B. Sc. III |
| 08 | Dhiraj Hade | B. Sc. III |
| 09 | Dipak Padmavat | B. Sc. III |
| 10 | Mangesh Hade | B. Sc. III |
| 11 | Nikita Dugad | B. Sc. III |
| 12 | Pooja Mapari | B. Sc. III |
| 13 | Priyanka More | B. Sc. III |
| 14 | Rohini Bodakhe | B. Sc. III |
| 15 | Sachin Gawali | B. Sc. III |
| 16 | Sagar Davhale | B. Sc. III |
| 17 | Shaikh Mufiz Shaikh Kabir | B. Sc. III |
| 18 | Shweta Adhao | B. Sc. III |
| 19 | Simran Aktar Khan | B. Sc. III |
| 20 | Akash Tatte | B. Sc. III |

MEMORANDUM OF UNDERSTANDING (MOU)

BETWEEN

LATE KU. DURGA K. BANMERU SCIENCE COLLEGE, LONAR, DIST. BULDHANA. 443302.

&

SWARANSH HERBOTECH LLP, ALOE VERA PROCESSING INDUSTRY, LONAR

FOR

SKILL DEVELOPMENT, OUTCOME BASED TRAININGS, PLACEMENT, R&D SERVICES AND RELATED SERVICES

First Party

Second Party

Page | 1

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter called as the 'MOU') is entered into on this the DAY OF Sept – Two Thousand and Twenty (/09/2020), by and between

LATE KU. DURGA K. BANMERU SCIENCE COLLEGE, LONAR, THE FIRST PARTY represented herein by its Dr. Prakash K. Banmeru (hereinafter referred as 'First Party', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

AND

SWARANSH HERBOTECH LLP, ALOE VERA PROCESSING INDUSTRY, LONAR, THE SECOND PARTY, and represented herein by its Managing Director, Dr. (Mrs.) Varsha Ashwin Mapari, (hereinafter referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party') as:

WHEREAS:

A) First Party is a Higher Educational Institution named:

(I) LATE KU. DURGA K. BANMERU SCIENCE COLLEGE, LONAR

- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intent to cooperate and focus their efforts on cooperation within area of Skill Based Training, Education and Research.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interests.
- E) SWARANSH HERBOTECH LLP, ALOE VERA PROCESSING INDUSTRY, LONAR, the Second Party is engaged in Business, Manufacturing, Skill Development, Education and R &D Services in the fields of Aloe vera Processing Industry, Herbal Medicines/ Products and related fields.



Second Party

Page | 2

- F) SWARANSH HERBOTECH LLP, ALOE VERA PROCESSING INDUSTRY, LONAR, the Second Party is promoted by Dr. (Mrs.) Varsha Ashwin Mapari & Group, Lonar.
- G) Related information: The Second Party has well established Aloe Vera Processing Unit, who purchase & Process the *Aloe vera* from number of farmers. It has its own well trained qualified staff and engaged with to conduct the training program for freshers.

NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERE TO AGREE AS FOLLOWS: CLAUSE 1

CO-OPERATION

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the Institution and its related wings. The Parties shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of First Party providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry, the Second Party.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

CLAUSE 2



SCOPE OF THE MoU

Second Party

Page 3

- The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe 2.1 that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.
- Curriculum Design: Second Party will give valuable inputs to the First Party in 2.2 teaching / training methodology and suitably customize the curriculum so that the students fit into the industrial scenario meaningfully.
- Industrial Training & Visits: Industry and Institution interaction will give an 2.3 insight in to the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. The industrial training and exposure provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The Second Party will provide its Labs / Workshops / Industrial Sites for the hands-on training of the learners enrolled with the First Party.
- Research and Development: Both Parties have agreed to carry out the joint 2.4 research activities in the fields of Herbal Medicine.
- Skill Development Programs: Second Party to train the students of First Party 2.5 on the emerging technologies in order to bridge the skill gap and make them industry ready.
- Guest Lectures: First Party & Second Party to extend the necessary support to 2.6 deliver guest lectures to the students of the First Party on the technology trends and in house requirements.
- Faculty Development Programs: First Party & Second Party to train the 2.7 Faculties of First Party for imparting training as per the industrial requirement considering the National Occupational Standards in concerned sector, if available.
- Placement of Trained Students: Second Party will actively engage to help the 2.8 delivery of the training and placement of students of the First Party into internships/jobs.
- Both Parties to obtain all internal approvals, consents, permissions, and licenses 2.9 of whatsoever nature required for offering the Programmes on the terms specified herein
- There is no financial commitment on the part of the LATE KU. DURGA K. 2.10

BANMERU SCIENCE COLLEGE, LONAR, the First Party to take up any

First Party

Second Party

Page 4

programme mentioned in the MoU. If there is any financial consideration, it will be dealt separately.

CLAUSE 3 INTELLECTUAL PROPERTY

3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

CLAUSE 4

VALIDITY

- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms, during which period SWARANSH HERBOTECH LLP, ALOE VERA PROCESSING INDUSTRY, LONAR, the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act ⁴¹... on other part of SWARANSH HERBOTECH LLP, ALOE VERA
 - PROCESSING, INDUSTRY, LONAR, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU.
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations.

CLAUSE 5

RELATIONSHIP BETWEEN THE PARTIES

5.1 It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

(Authorized Signature)

First Party

Second Party

(Authorized Signature) Swaransh Herbotech L.L.F. Second ParResignated Partner / Aus

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of Lonar.

AGREED:

For LATE KU. DURGA K. BANMERU SCIENCE COLLEGE, LONAR Date - 28.09, 2020

Lat Dru Bika Bimmanileru Science College Lonar Dist Buldanti

For SWARANSH HERBOTECH LLP, ALOE VERA PROCESSING INDUSTRY, LONAR INDUSTRY, LONAR

(Dr. (Mrs.) Varsha Atender Pill.P. Swaranab HerbotechPill.P. Designated Partner / Aus

| Name of Institution: LATE KU. DURGA K. BANMERU SCIENCE COLLEGE, LONAR | Name of Industry: SWARANSH HERBOTECH LLP, ALOE VERA PROCESSING INDUSTRY, LONAR |
|---|--|
| Address: Loni Road, Lonar, Dist. Buldhana. 443302. | Address: Hirdav Road, Lonar, Dist. Buldana, 443302. |
| Contact Details: (07260) 221315 | Contact Details: 9604440700 |
| E-mails: lkdkbscl@rediffmail.com | E-mails: |
| Web: www.lkdkbanmerucollege.ac.in | Web: |

Witness 1: Witness 3: A

Witness 2: 333004 Witness 4: Ba

First Party

Second Party

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Late Ku. Durga K. Banmeru Science College,Lonar, Dist. Buldana. 443302. (Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited "C" Grade)

Department of Botany

Organize Online Webinar for

Certificate Course in "HERBAL MEDICINES"

on 30th July, 2020 at 11 am

Resource Persons



Prof. Sushilkumar A. Shinde Dept. of Pharmacognosy, Dr. Rajendra Gode College of Pharmacy, Malkapur. Topic: Preparation, formulation & Standardization of Herbal Drugs Dr. Pravin K. Banmeru Banmeru Ayurvedic Panchkarm Chikitsalaya, Jalana. Topic: Applications, Doses & Scope of Herbal Drugs

HOD

Dr. Sapana R. Waghmare Ayurvedic Panchkarm Chikitsalaya, Jalana. Topic: Methods of Disease Diagnosis, treatment & Conservation Strategies for Herbal Drugs

Registration Link: <u>https://forms.gle/oZr4kbG87mkLdnzB6</u>

The webinar will be conduct on Google Meet: <u>https://meet.google.com/jmx-rywg-vzt</u>

Webinar is only for Students

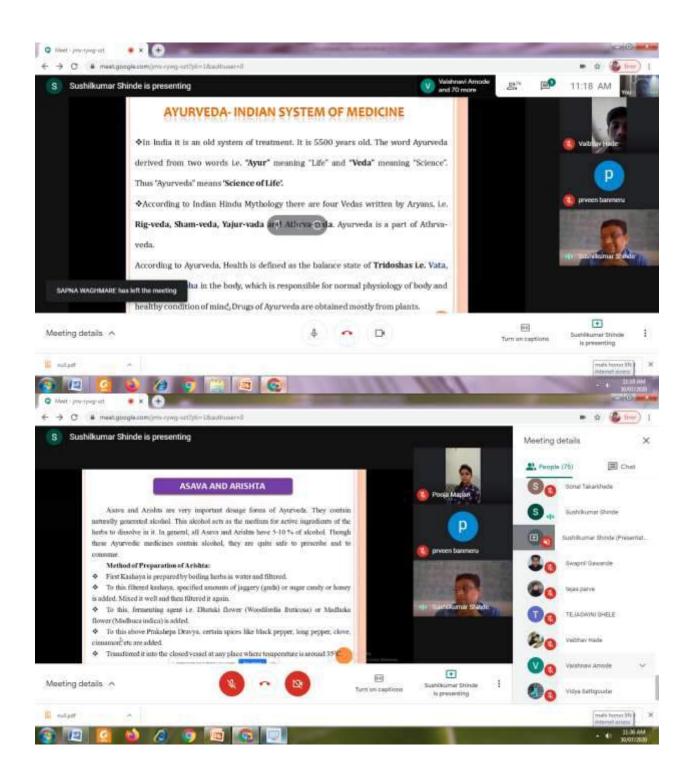
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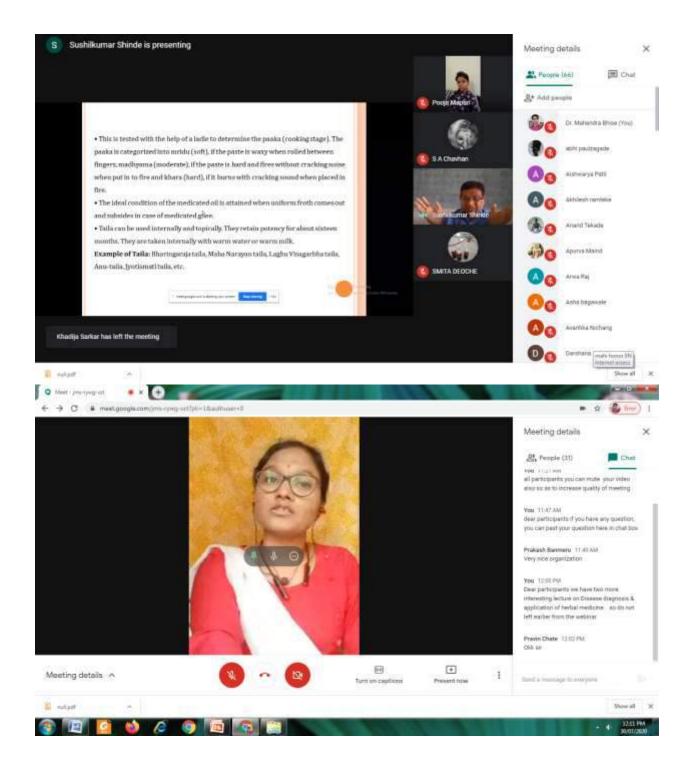
Dr. Mahendra R. Bhise 🛛 🛛 Dr. Prakash K. Banmeru

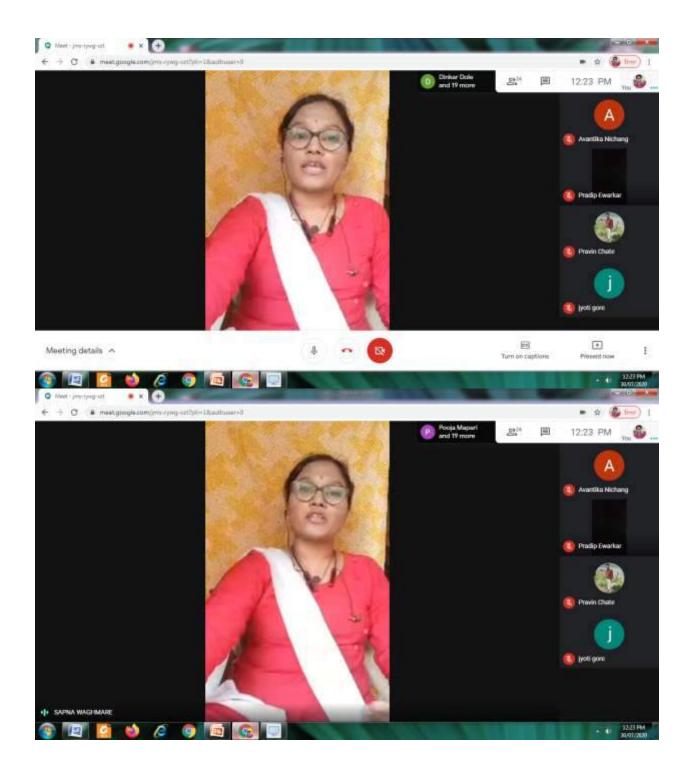
Principal

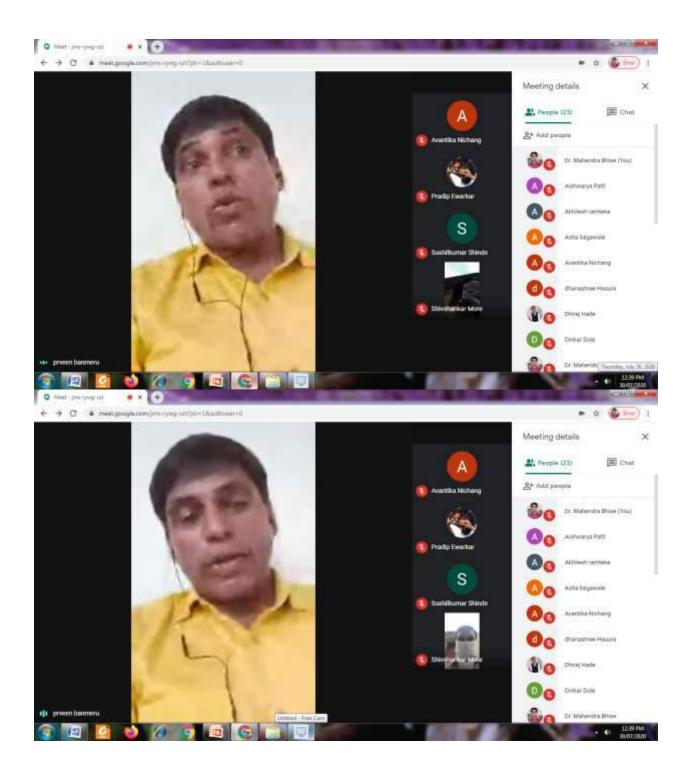
Department of Botany

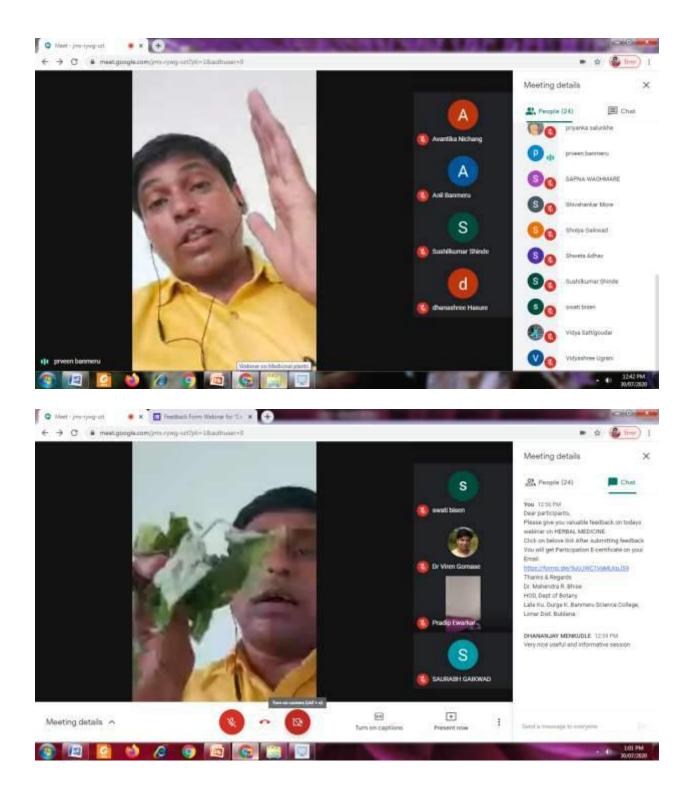
Late Ku. Durga K. Banmeru Science College, Lonar. Dist Buldana. For any query: Mo. 9420813844 e-mail: mahendrabhise17@gmail.com

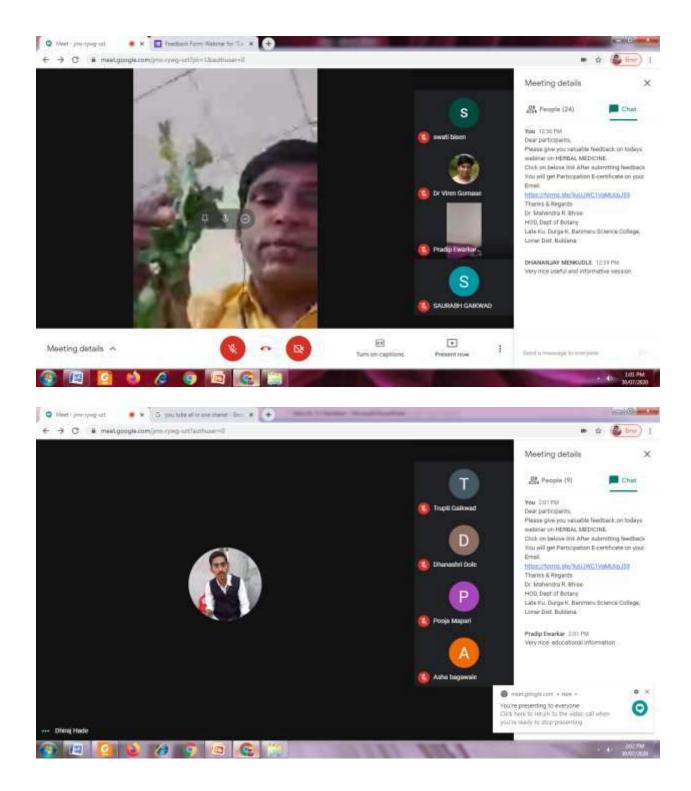


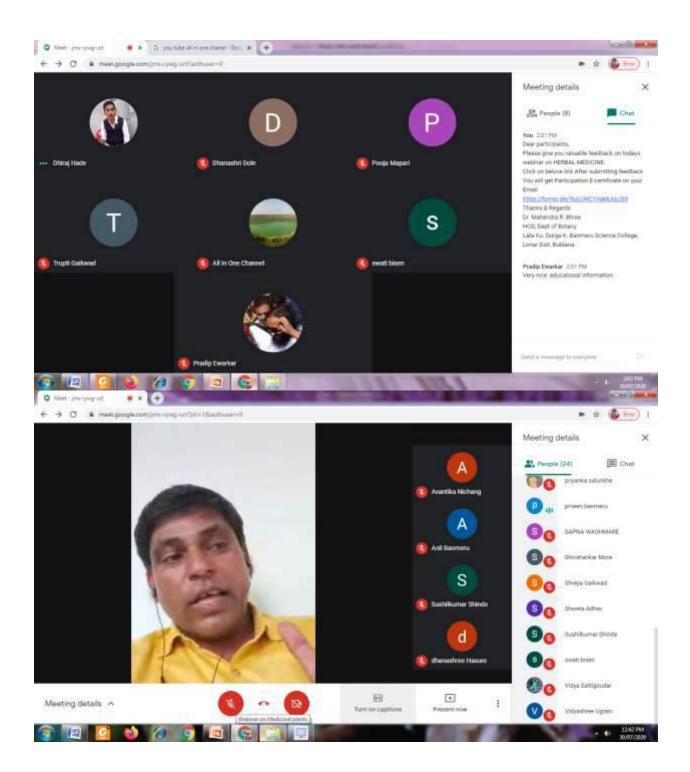












LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Míss. Shweta Vílas Adhao B.Sc. III Sem VI

Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Díst. Buldana. Maharashtra. He/ She has earned 80% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

HOD



Dr. Prakash K. Banmeru Principal Cert ID Bot/Med/2020/1

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Miss. Pooja Ramesh Mapari B.Sc. III Sem VI



Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Dist. Buldana. Maharashtra. He/ She has earned 72% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

HOD



Dr. Prakash K. Banmeru Principal Cert ID Bot/Med/2020/2



(Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)

Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Míss. Níkíta Aníl Dugad B.Sc. III Sem VI

Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Dist. Buldana. Maharashtra. He/ She has earned 50% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



Cert ID Bot/Med/2020/3

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,



Mr. Dípak Shankar Padmavat B.Sc. III Sem VI

Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Dist. Buldana. Maharashtra. He/ She has earned 80% score in Exam conducted on date: 07/08/2020.



Dr. Prakash K. Banmeru Principal

НОГ Cert ID Bot/Med/2020/4

Dr. Mahendra R. Bhise

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Mr. Sagar Dattatray Davhale B.Sc. III Sem VI Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Dist. Buldana. Maharashtra. He/ She has earned 76% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



Dr. Prakash Banmeru Principal Cert ID Bot/Med/2020/5

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Mr. Akash Výaykumar Tatte B.Sc. III Sem VI 🎆 Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Dist. Buldana. Maharashtra. He/ She has earned 68% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



Dr. Prakash K. Banmeru Principal Cert ID Bot/Med/2020/6

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Mr. Vaíbhav Madhav Hade B.Sc. III Sem VI

Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Dist. Buldana. Maharashtra. He/ She has earned 60% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



Dr. Praka (. Banmeru Principal Cert ID Bot/Med/2020/7

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Mr. Sachín Subhash Gawalí B.Sc. III Sem VI

Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Díst. Buldana. Maharashtra. He/ She has earned 50% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



Dr. Prakash (. Banmeru Principal Cert ID Bot/Med/2020/8

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,



Mr. Dhíraí Wamanrao Hade B.Sc. III Sem VI

Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Dist. Buldana. Maharashtra. He/ She has earned 76% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

HOD



Dr. Prakash K. Banmeru Principal Cert ID Bot/Med/2020/9

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Mr. Akash Madhav Kale B.Sc. III Sem VI

Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Díst. Buldana. Maharashtra. He/ She has earned 50% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



Dr. Prakash K. Banmeru Principal

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Míss. Símran Akhtar Khan B.Sc. III Sem VI

Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Dist. Buldana. Maharashtra. He/ She has earned 52% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



Dr. Prakash (. Banmeru **Principal**

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Miss. Dhanashree Dinkar Dole B.Sc. III Sem VI

Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Dist. Buldana. Maharashtra. He/ She has earned 88% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



(. Banmeru Principal

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Mr. Shaikh Mufiz Shaikh Kabir B.Sc. III Sem VI Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Dist. Buldana. Maharashtra. He/ She has earned 68% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



K. Banmeru Principal Cert ID Bot/Med/2020/13

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Míss. Príyanka Suresh More B.Sc. III Sem VI

Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Díst. Buldana. Maharashtra. He/ She has earned 84% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



Dr. Prakash K. Banmeru Principal

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Miss. Avantika Ashok Nichang B.Sc. III Sem VI

Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Dist. Buldana. Maharashtra. He/ She has earned 72% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



K. Banmeru Principal

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Miss. Azqua sabeen turab Alí Síddíquí B.Sc. III Sem VI Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Díst. Buldana. Maharashtra. He/ She has earned 60% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



Dr. Prakas (. Banmeru Principal Cert ID Bot/Med/2020/16

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Mr. Akshay Ajítkumar Gelda B.Sc. III Sem VI Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Díst. Buldana. Maharashtra. He/ She has earned 50% score in Exam conducted on date: 07/08/2020.



Dr. Prakash K. Banmeru Principal Cert ID Bot/Med/2020/17

Dr. Mahendra R. Bhise НОГ

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Mr. Mangesh Chhagan Hade B.Sc. III Sem VI Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Díst. Buldana. Maharashtra. He/ She has earned 56% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



Dr. Prakash K. Banmeru Principal Cert ID Bot/Med/2020/18

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Míss. Aratí Bhaskar Ganjare B.Sc. III Sem VI Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Díst. Buldana. Maharashtra. He/ She has earned 50% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



Dr. Prakash K. Banmeru Principal

LATE KU. DURGA K. BANMERU SCIENCE (Affiliated to Sant Gadage Baba Amravati University Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Botany

Certificate Course in "HERBAL MEDICINES" Certificate of Course Completion

This is to certify that,

Miss. Rohini Tanhaji Bodkhe B.Sc. III Sem VI Successfully completed Six weeks Certificate Course in "Herbal Medicines" conducted by Department of Botany, Late Ku. Durga K. Banmeru Science College, Lonar. Díst. Buldana. Maharashtra. He/ She has earned 72% score in Exam conducted on date: 07/08/2020.

Dr. Mahendra R. Bhise

НОГ



Dr. Prakash K. Banmeru Principal Cert ID Bot/Med/2020/20

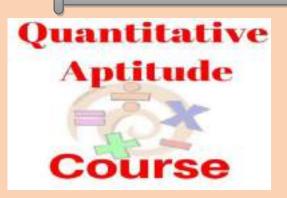
LATEKUDURGAK.BANMERUSCIENCECOLLEGE, LONAR, DIST. BULDANA.443302.

(Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Mathematics

Certificate Course on Quantitative Aptitude





By

DepartmentofMathematics,

LateKu.DurgaK.BanmeruScienceCollege,Lonar,

Dist. Buldana. Pin.443302.

2020-21



DeptofMathematics,LateKu.DurgaK.BanmeruScienceCollege,LonarDist.Buldana

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LATEKUDURGAK.BANMERUSCIENCECOLLEGE, LONAR, DIST. BULDANA.443302.

(Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)

Department of Mathematics

Introduction

Quantitative Aptitude is the most important requisite for clearing any competitive exam. Quantitative aptitude test are becoming the norm for competitive exams in India. The aptitude questions essentially measures candidatementalnumericalability,logicalformulaeapplication&accuracyof calculation.Italsotestyourmentalalertness.

Department of Mathematics of our Late Ku. Durga K. Banmeru Science college, Lonar is organizing this certificate course in order to enhance students problem solving ability and help those to student who are preparing for any type of competitive examination.

Course Objectives

- Toenhanceproblemsolvingskillamongstudent.
- To improve the mathematicalskill
- Tohelpstudentswhoarepreparingforanytypecompetitiveexamination.
- Thinkingcritically&applyingbasicmathematicsskilltointerpretdata.
- To prepare student for campus placement aptitudepapers



LATEKUDURGAK.BANMERUSCIENCECOLLEGE, LONAR, DIST. BULDANA.443302.

(Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)

Department of Mathematics

Course Outcome

On successful completion of the course, the students will able to :

- Understandthebasicconceptsofquantitativeability.
- Solvecampusplacementaptitudepaperscoveringquantitativeaptitude.
- CompeteinvariouscompetitiveexamslikeMPSC,NET/SET,CAT,GATE (aptitudepart)

Eligibility

• Student of B.scIst , IInd& IIIrd

Admission Procedure

Interested candidates have to make application to the Mathematics Department. A minimum of20 candidate are require for commencing thebatch.Firstcomefirstservebasedadmissionwillbethere.

Fee Structure

≻ Rs. 500/- Percandidate.

Attendance

Minimum 75% Attendance is necessary in theory classes to appear for finalexamination.

Certification

The Candidate successfully completing the Course shall be awarded a Certificate in appropriateform.

LATEKUDURGAK.BANMERUSCIENCECOLLEGE,

LONAR, DIST. BULDANA.443302.

(Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)

Department of Mathematics

Syllabus

Unit I: Basic of Quantitative Abilities

- Problems on NumberSystem
- Problems on HCF &LCM
- Decimal &Fraction
- Simplification.

Unit II: Arithmatic Quantitative Abilities

- Averages
- Profit &Loss
- Ratio & Proportion
- Percentage

Unit III: General Aptitude Problems

- Number & Ages
- Problem onTrains
- Discount
- Partnership
- Mixture & Allegation

Unit IV:, Problems Related to Time

- Time &Work
- Time & Distance
- Calendar
- Clock

Unit V: Modern Maths

- Permutation & Combination
- Probability

LATEKUDURGAK.BANMERUSCIENCECOLLEGE, LONAR, DIST. BULDANA.443302.

(Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)

Department of Mathematics

Teaching & Examination Scheme

| Course | Teaching workload | Exam Theory | GradeSystem |
|---|-------------------------------------|---|---|
| Certificate Course in "Quantitative Aptitude " | Total 30 lectures of One Hour | (100 Marks) 50 Multiple Choice Question (each for 2 Marks) | Marks 100-81: O Grade 80-71:AGrade 70-61:BGrade 60-51:CGrade 50-00: Fail |

Recommended Books/References

- 1)R.S.Aggarwal.QuantitativeAptitudeforcompetitiveexamination.
- 2)ArunSharma-QuantitativeAptitudeforCAT.
- 3) Arihant Publications-Fasttrackobjective Arithmetic.
- 4)Abhijit Guha/Mcgraw Hill education- Quantitative Aptitude for all competitive examination.



LATEKUDURGAK.BANMERUSCIENCECOLLEGE, LONAR, DIST. BULDANA.443302.

(Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)

Department of Mathematics

Organizing Department

Department of Mathematics, Late Ku. Durga K. Banmeru Science College, Lonar ,with kind guidance of **Principal Dr. Prakash K. Banmeru sir.**

> CourseCoordinator-Prof.SaurabhP.Gaikwad

Asst. Prof. & HOD- Mathematics, Late Ku. Durga K. Banmeru Science College, Loni road, Lonar , DistBuldana 9763055670

(CourseCoordinator)

Principal



स्थापना जुन २००० (शासन क एन.जी.सी.२००० / न.म.वि. (१/२०००) म.शि. ३ दि. २८ जुन २०००) अमृत सेवाभावी संस्था, परभणी संचलीत,

के. क. दुर्गा क. बनमेरु विज्ञान महाविद्यालय,

लोणार ता. लोणार जि. बुलडाणा ४४३३०२

संाकेतांक - ३३७

नॅक मुल्यांकन प्राप्त

जा. क. :-DBSCL/2x-21/303

Raia:- 3/ 3 /2= 3

दरध्वनी क. (०७२६०)२२१३१५

To,

Hon'ble Dy. Registrar, Academic Section, Sant Gadge Baba Amrayati University, Amrayati

Subject: About Nomination of University Representative of UGC-NSQF Approved Certificate Course.

Respected Sir,

With reference to your mail in response to our letter regarding formation of <u>Skill Assessment</u> <u>Board</u> (SAB) for UGC- NSQF approved certificate course on quantitative aptitude we are giving details of Skill Assessment Board to be form for this course.

| Sr.No. | Name of Member | Designation | Remark |
|--------|---------------------|--------------------------------------|----------------------------------|
| 1 | Dr. P. K. Bnameru | Head of Institution | Brincipallaria |
| 2 | Dr. M. V. Gaikwad | UGC- Coordinator | Assist Pro b |
| 3 | Adv. Rahul Navandar | Representative from Industry Partner | Industry Pasties |
| 4 | - | University Representative | To be nominated by University |

Please accept this information and we request you to nominate the university representative for the formation of SAB for successful conduction of course.

Thanking You.

Course Coordinator

UGC Coordinator

Yours Faithfully



Candidates Name List-

| Result | Mobile Number |
|--------|--|
| Pass | 9766383170 |
| Pass | 7083129370 |
| Pass | 9028161799 |
| Pass | 8975695540 |
| Pass | 9175210420 |
| Pass | 7385460142 |
| Pass | 7028599794 |
| Pass | 9022435332 |
| Pass | 9309743390 |
| Pass | 7083847467 |
| Pass | 9637474298 |
| Pass | 7057605385 |
| Pass | 9370032497 |
| Pass | 7499667537 |
| Pass | 8459689332 |
| Pass | 9309983378 |
| Pass | 9423338068 |
| Pass | 9021849773 |
| Pass | 9145600099 |
| Pass | 8605459073 |
| | Pass Pass Pass Pass Pass Pass Pass Pass |









AMRUT SEVABHAVI SANSTHA PARBHANI'S LATE KU. DURGA K. BANMERU SCIENCE COLLEGE LONAR, DIST.BULDHANA-443302

(UGC-2F- 12B approved, Accredited by NAAC, affiliated to Sant Gadge Baba Amravati University Amravati

E-BROCHURE For CERTIFICATE COURCE/DIPLOMA

UNDER National Skill Qualification Framework-Union Grant Commission New Dehli NSQF-UGC APPROVED



SCOPE AND IMPORTANCE OF CERTIFICATE COURSEoday, fish provides more than one billion poor people with most of their d

"Fish provides more than one billion poor people with most of their daily animal protein."



SOURCE: WOLDFISH

The Department of Fisheries is one of the two Departments under the Ministry of Fisheries, Animal Husbandry & Dairying. It came into existence with effect from 05.02.2019 through carving out Fishery Division from the erstwhile Department of Animal Husbandry, Dairying and Fisheries vide Cabinet Secretariat's Notification F.No.1/21/21/2018-Cab dated 05.02.2019.

The Department is under the overall charge of **Shri Giriraj Singh**, **Hon'ble Minister for Fisheries, Animal Husbandry & Dairying** assisted by two Ministers of State for Fisheries, Animal Husbandry & Dairying namely Dr. Sanjiv Kumar Balyan and Sh. Pratap Chandra Sarangi. The administrative Head of the Department is Secretary Fisheries. Secretary Fisheries is assisted by two Joint Secretaries. The Department is responsible for matters relating to formulation of policy and schemes relating to Development of Inland , Marine and Coastal Fisheries and Fishery Institutes namely Fishery Survey of India Mumbai, Central Institute of Fisheries Nautical and Engineering Training (CIFNET), Kerala, Central Institute of Coastal Engineering For Fishery (CICEF), Bangalore, National Institute of Fisheries Post Harvest Technology and Training,(NIFPHATT), Kochi, National Fisheries Development Board (NFDB), Hyderabad, Coastal Aquaculture Authority, Chennai.

The list of subjects allocated to Department of Fisheries is as under:

- Fish seed production.
- Development of fish feed and fish products industry with regard to the formulation of the demand and fixation of targets.
- Promotion and development of Fishing and Fisheries (inland, marine and beyond territorial waters) and its associated activities, including infrastructure development, Marketing, Exports, and institutional arrangements, etc.
- Welfare of Fishermen and other Fisher-folk and strengthening of their livelihoods.
- Liaison and cooperation with international organizations in matters relating to fisheries development.
- Fisheries Statistics.
- Matters relating to loss of fish stock due to natural calamities.
- Regulation of fish stock importation, Quarantine and Certification.
- Fishery Survey of India, Mumbai.
- Legislation with regard to the Prevention of the extension from one State to another of infectious or contagious diseases or pests affecting fish.
- Legislation with regard to Pattern of financial assistance to various State Undertakings, Fisheries Development Schemes through State agencies/Co-operative Unions.

AMRUT SEVABHAVI SANSTHA PARBHANI'S LATE KU. DURGA K. BANMERU SCIENCE COOLEGE LONAR, DIST.BULDHANA DEPARTMENT OF ZOOLOGY RUNS NSQF-UGC APPROVED ECONOMIC ZOOLOGY CERTIFICATE COURCE-FRESHWATER AQUACULTURE FARMER SYLLABUS

| Title of unit (include any identification code used) | Mandatory/ Optional | Estimated size (learning hours: Theory) | Estimated size (learning hours: Practical) | Level |
|---|------------------------|--|---|-------|
| Bridge Module (Introduction) | Mandatory | 6 | 4 | 4 |
| AGR/N4921 Perform pre culture activities | Mandatory | 12 | 38 | 4 |
| AGR/N4922 Perform post stocking culture activities | Mandatory | 12 | 38 | 4 |
| AGR/N4923 Perform harvesting and marketing activities for freshwater organisms | Mandatory | 14 | 36 | 4 |
| AGR/N4918 Ensure safety, hygiene and sanitation practices for culture operations | Mandatory | 12 | 28 | 4 |

1. AGR/N4921 Perform pre-culture activities

| 1. AGR/N4921 Perform pre- culture activities | Assessment criteria for outcomes | Total Marks | Out Of | Theory | Skills Practical |
|---|---|----------------|-----------|--------|---------------------|
| | PC1. identify varieties of organisms (carps, catfish, murrels, freshwater prawn, etc.)suitable for culture in specific water bodies | 100 | 9 | 3 | 6 |
| | PC2. prepare pond for carp culture using appropriate methods for 1)removal of unwanted organisms 2) filling of water to requisite depth 3) eradication of predatory and weed fishes, 4) introducing preparatory dose of lime, manures and fertilizers | | 9 | 3 | 6 |
| | PC3. prepare ponds for freshwater cat fish culture (i.e. magur – Clarias batrachus) by methods such as fencing to prevent escape of fish from culture ponds | | 9 | 2 | 7 |
| | PC4. prepare ponds for crustacean culture (i.e. prawn) and provide hiding structures at the bottom of the pond | | 8 | 2 | 6 |
| | PC5. find out the source of quality seed for the desired organisms | | 8 | 3 | 5 |
| | PC6. perform seed transport with minimum stress | | 8 | 2 | 6 |
| | PC7. identify the diversified carp species for freshwater | | 8 | 3 | 5 |

| aquaculture system | | | | |
|---|-----|---|---|---|
| PC8. ensure seed stocking with due acclimatisation | | 8 | 2 | 6 |
| PC9. monitor the culture methods for variety of organisms | | 8 | 2 | 6 |
| PC10. ensure availability of suitable environment for culture of specific organisms | | 9 | 3 | 6 |
| PC11. identify culture activities of each variety of organisms in culture system | | 8 | 3 | 5 |
| PC12. perform the culture activities in the desired manner | | 8 | 2 | 6 |
| TOTAL | 100 | | | |

2. AGR/N4922 Perform post-stocking culture activities

| 2. AGR/N4922 Perform post- stocking culture activities | Assessment criteria for outcomes | Total Marks | Out Of | Theory | Skills Practical |
|--|---|----------------|-----------|--------|---------------------|
| | PC1. identify suitable water level required in culture ponds for different varieties of organisms | | 4 | 1 | 3 |
| | PC2. perform periodic soil, water and fish sampling and netting operation to ensure proper management of the crop | | 5 | 2 | 3 |
| | PC3. apply appropriate dosages of lime, manures, fertilizers and therapeutics to maintain suitable soil and water quality in the culture system | | 5 | 2 | 3 |
| | PC4. identify plankton and benthic fauna in water | | 4 | 1 | 3 |

| PC5. apply appropriate methods | | | |
|--|---|---|---|
| for aeration of water | 4 | 1 | 3 |
| PC6. apply suitable methods to control aquatic weeds and algae present in the culture system | 4 | 1 | 3 |
| PC7. identify the type of fertilizers, herbicides and chemicals required for culture system and determine their appropriate dose | 5 | 2 | 3 |
| PC8. apply the selected inputs with appropriate methods | 4 | 1 | 3 |
| PC9. anticipate the type of diseases likely to affect the organisms and take preventive measures | 5 | 2 | 3 |
| PC10. apply correct dose of medicines and know the mode of application for curing the organisms | 4 | 1 | 3 |
| PC11. sample the cultured organisms at periodic interval to estimate the biomass | 5 | 2 | 3 |
| PC12. identify the feed type and amount of daily feed ration | 4 | 1 | 3 |
| PC13. deliver the feed with appropriate method and proper schedule | 4 | 1 | 3 |
| PC14. determine the quantum of feed and its application for carp culture pond | 4 | 1 | 3 |

| fish in the quarantine tank for signs of improvement | 4 | 1 | 3 |
|--|---|---|---|
| PC22. treat as per prescription at recommended dose of the therapeutics PC23. monitor the condition of | 4 | 1 | 3 |
| PC21. diagnose the problem/disease with the help of an expert/disease diagnosis laboratory | 4 | 1 | 3 |
| PC20. separate the diseased fish from the healthy fish and put them in a quarantine tank, in case of disease outbreak | 5 | 2 | 3 |
| PC19. determine the correct dose of medicines / disinfectants required to cure diseases | 4 | 1 | 3 |
| PC18. determine health parameters to judge the condition of organisms in culture system | 4 | 1 | 3 |
| PC17. modify the feed ration according to the environmental condition and season | 4 | 1 | 3 |
| PC16. treat the pond area where feed is delivered to maintain the cleanliness, periodically | 5 | 2 | 3 |
| PC15. monitor the feed consumption and modify the daily ration accordingly | 5 | 2 | 3 |

3. AGR/N4923 Perform harvesting and marketing activities for freshwater organisms

| 3. GR/N4923 Perform harvesting and marketing activities for freshwater organisms | Assessment criteria for outcomes | Total Marks | Out Of | Theory | Skills Practical |
|--|--|----------------|-----------|--------|---------------------|
| | PC1. decide on the harvesting time and ensure timely harvesting of freshwater organisms | 100 | 11 | 3 | 8 |
| | PC2. use harvesting net with appropriate mesh size | | 11 | 3 | 8 |
| | PC3. ensure harvest of only the marketable size organisms in case of partial harvesting | | 11 | 4 | 7 |
| | PC4. estimate the approximate quantity to be harvested | | 11 | 3 | 8 |
| | PC5. identify markets where harvested organisms can fetch reasonable price | | 11 | 3 | 8 |
| | PC6. identify demand of organisms in the market to overcome situation compelling distress | | 12 | 4 | 8 |
| | PC7. pack and transport harvested organisms in good condition | | 11 | 3 | 8 |
| | PC8. maintain a record of harvest and sale proceeds | | 11 | 3 | 8 |
| | PC9. record cost of inputs and other miscellaneous expenditures | | 11 | 4 | 7 |
| | Total | 100 | | | |

4. AGR/N4918: Ensure safety, hygiene and sanitation practices for culture operations

| 4. AGR/N4918: Ensure safety, hygiene and sanitation practices for culture operations | Assessment criteria for outcomes | Total Marks | Out Of | Theory | Skills Practical |
|---|---|----------------|-----------|--------|---------------------|
| | | 100 | | | |
| | PC1. ensure suitable measures for protection of from natural calamities such as flood, protect dyke from erosion or break | | 5 | 2 | 3 |
| | PC10. apply effective systems and routines to ensure healthy and hygienic conditions during all stages of fish culture including transportation and marketing | | 5 | 2 | 3 |
| | PC11. ensure that the fish culture premises are constantly monitored/inspected for breaches in the protection provided by health and hygiene measures | | 5 | 2 | 3 |
| | PC12. undertake basic safety checks before operation of any equipments | | 5 | 2 | 3 |
| | PC13. wear protective clothing and gear as and when required and ensure adherence to safety guidelines | | 5 | 1 | 4 |
| | PC14. report potential hazards to the supervisor immediately | | 4 | 3 | 3 |

| PC15. follow standard procedure to deal with accidents and emergency situations | 2S | 5 | 2 | 3 |
|--|----|---|---|---|
| PC16. use first aid kit as and when required and provide appropriate treatment in case of any injuries | | 5 | 1 | 4 |
| PC17. ensure maintenance of suitable soil and water quality parameters at all times with frequent tests | | 5 | 2 | 3 |
| PC18. ensure specified feed is provided to organisms at regular intervals and excess feeding is avoided | | 5 | 2 | 3 |
| PC19. carry out regular inspection of organisms for possible presence of parasites, pathogenic infections, any phenotypic disorder, spot, etc. which are usually the signs of ailments or disease outbreak | | 5 | 2 | 3 |
| PC20. ensure all nets, utensils and vessels used are decontaminated and clean | | 4 | 1 | 3 |
| PC21. implement effective security measures for prevention of theft/sabotage | | 5 | 1 | 4 |





Cotie Cotie







| SR. NO | MONTHS | PARTICULAR | REMARKS |
|--------|------------|--------------------------------------|---------|
| 1 | Dec- | - Course approval | |
| | Jan-2021 | - E–Boucher | |
| | | - Publicity | |
| | | - Students entry /Admission | |
| | | - Skill Assessment board meeting SAB | |
| 2 | Jan-Feb- | - Commencement t of online classes | |
| | 2021 | - Organic of Guest lecturer | |
| | | - Practical etc. | |
| 3 | Feb-March- | - Guest Lectures | |
| | 2021 | -SAB – meeting for Department | |
| | | -Tour arrangement | |
| | | -Training of Students. | |
| 4 | March- | - Test | |
| | April-2021 | -Exams | |
| | | - Result | |
| | | - Certificate | |
| 5 | March- | - Uploading of marks /Students data | |
| | April-2021 | | |

| 15 | ASCI | Attendance Shee | |
|----------|--|-------------------|---|
| oliege N | Name:- Late Ku. Durga K. Banmeru Scier | nce College Lonar | Location:- Late Ku. Durga K. Banmeru Science Colleg Lonar, Dist. Buldhna M.S |
| anale N | ame Certificate Course in Freshwater | Fish Culture | Semester:- 1 Level:- 4 |
| | rasessment :- | | Assessor Name :- Dr. |
| 10 | otal Student:- 20 | Present:- | Absent:- |
| No. | Name | Father Name | Signature |
| 1 | Ku. Aditi Haridas Rindhe | Haridas | A.H. Rin The |
| 2 | Ku Tanuja Ganesh Katkar | Ganesh | Thatkos |
| 3 | Ku.Ankita Ramesh Muke | Ramesh | Autre |
| 4 | Ku.Pallavi Sudhakar Narwade | Sudhakar | Brozwade |
| 5 | Ku.Harshada Gajanan Sarkate | Gajanan | #torshda |
| 4 | Mr.Nikhil Sukhdev Chavan | Sukhdev | Bhavan |
| ; | Chandrakant Tulshiram Debaje | Tulshiram | ्रम्थान <u>े</u> |
| 8 | Ku. Manisha Ashruba Palve | Ashruba | Mattaly. |
| 9 | Mr.Gopal Santosh Hendre | Santosh | Stepcher. |
| 10 | Ku Sanjivani Dashrath Bharshankar | Dashrat | Son hansharkar |
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| 18 | | / | a fair |
| 19 | (W) | | Principal |
| 20 | IN In | 8 | M. Durna V. Banineru Sciency - UM |
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| 1 | Assessor Signature | Princip | aal/HOD Signature with the posterings |
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| हिंह Skill India कौशल भारत - कुशल भारत | ASC Agriculture Still Co | uncil al India | M - S - D Nationa Skill Der Corpora Transforming the sk www.rsdcindi | l velopment ition Il landscape |
|--|-----------------------------|------------------|---|---|
| Ms. Tanuja Ganesh Katkar student of | D/O | Ganesh | (Aadhaar No: XXX | XXXXX5856) |
| | vati University Amavati | has successfully | passed assessment for _ | First |
| somoster of Certificate in | Freshwater Fish Farming | , Sossie | on 2020-2021 | |
| Maneesh Mansingka Chairman | 3 17 | | 製作業 | |
| Agriculture Skill Council of India E-Mail : info@asci-india.com | S. 10 | a. A. | Registration No.: ASCI Date of Issuance 17 Jan | |

| र्द्ध Skill India कौशल भारत-कुशल भारत | | Agriculture Still Council of India | | National Skill Dev Corporat Transforming the ski | N·S·D·C National Skill Development Corporation Transforming the skill landscape www.nsdcindia.org | |
|---|--|------------------------------------|-----------------------|---|--|--|
| 5 | | Certi | ficate | | | |
| Ms | Ankita Ramesh Muke | D/O | Ramesh | (Aadhaar No: XXX | XXXXX6590) | |
| student of | | Late Ku, Durga K, B | anmeru Science Colleg | e Lonar | | |
| affiliated to _ | Sant Gadge baba Amra | vati Universite anno | ati has successfu | lly passed assessment for _ | First | |
| semester of | Certificate in I | reshwater Fish Farmin | <u>18</u> , Ser | ssion 2020-2021 | | |
| | esh Mansingka Chairman | | | 为""问:"书 》(书:"书 问:"书:" | | |
| 22 12 03 00 T | Skill Council of India -india.com, www.asci-india.com | | | Registration No: ASCI Date of Issuance 17 Jac | | |

| डि हिंही कौशल भारत - व् | | Agricalture | SCI Skil Council of India | N·S·D·C National Skill Development Corporation Transforming the skill landscape www.nsdcindia.org |
|---|---|---------------------|------------------------------|--|
| | | Certi | ficate | 7 |
| Мя | Pallavi Sudhakar Narwade | D/O | Sudhakar | (AadhaarNo: XXXXXXX7800) |
| student of | L | ate Ku, Durste K. I | Commerca Science College 1 | onar |
| affiliated to | Sant Gadge baba Amravati | University | has successfully | passed assessment for First |
| semester of | Certificate in Fres | hwater Fish Farmi | n <u>s</u> , Sessio | on <u>2020-2021</u> |
| C | n | | | Registration No: ASCI/UGC/12441 |
| and the second se | Skill Council of India india.com, www.asci-india.com | | 1 k k | Date of Issuance 17 Jan, 2023 |

| Skill कौशल भारत- | | Asi Agriculture Skilled Certifi | | N·S·D·C National Skill Development Corporation Transforming the skill landscape www.nadcindia.org |
|---------------------|---|---------------------------------------|------------------------------------|--|
| Ms | Harshada Gajanan Sarkate L | D/O | Gajanan 1eru Science College Lo | _(AadhaarNo: XXXXXXXX28 |
| affiliated to _ | Sant Gadge baba Amravati | | has successfully p | assed assessment for First 2020-2021 |
| | N eesh Mansingka | | , | |
| Agricultur | Chairman e Skill Council of India i-india.com | | | Registration No: ASCI/UGC/1244 Date of Issuance 17 Jan, 2023 |

| Skill कोशल भारत- | | The second | SCI Skill Council of India | N-S-D-C National Skill Development Corporation Transforming the skill landscape www.nsdcindlia.org |
|-----------------------|--|---|-------------------------------|---|
| | | Certi | ficate | The |
| Mr | Nikhil Sukhdev Chavan | S/O | Sukhdev | (Aadhaar No: XXXXXXX2551) |
| student of | | Late Ku. Dorge K. B | anneru Science College | Lonar |
| affiliated to | Sant Gadge baba Amrav | ati University | has successful | ly passed assessment for First |
| semester of | Certificate in F | reshwater Fish Farmin | 1 <u>8</u> , Sess | ion 2020-2021 |
| | ∩, —` , resh Mansingka Chairman | | | の変換 |
| | Skill Council of India -india.com, www.asci-india.com | 5. | an in | Registratice No.: ASCI/UGC/12443 Date of Issuance 17 Jan, 2023 |

| र्द्ध Skill India कौशल भारत - कुशल भारत | | SCI Skill Cauncil of India | N-5-D Nationa Skill De Corpora Transforming the sk www.nsdcind | l velopment ition ill landscape |
|---|--------------------------------------|-------------------------------|---|--|
| 7 | Certi | ficate | | |
| Mr. <u>Chandrakant T</u> student of | ulshiram Debaje S/O | Tulshiram | (Aadhaar No: XXX Lonar | XXXXX0730) |
| affiliated to Sant Gadg | e baba Amravati University Amra | vati has successfull | y passed assessment for _ | First |
| semester of C | Certificate in Freshwater Fish Farmi | ng, Sess | ion 2020-2021 | |
| Mancesh Mansingka Chairman | | | | |
| Agriculture Skill Council of E-Mail : info@asci-india.com, www.asc | | 28.00 | Registration No.: ASCI Date of Issuance 17 Jac | |

| Skill कोशल भारत- | | 1 | SCI Still Caused of India | N. S. I Nation Skill De Corpor Transforming the sl www.nsdcind | al evelopment ation kill landscape |
|---------------------|---|--------------------|------------------------------|---|---|
| Ms | Manisha Ashruba Palve | Certi | ficate Ashraba | (Aadhaar No: XXX | XXXXX8155) |
| student of | I | ate Ku. Durga K. E | anmera Science Colleg | e Lonar | |
| affiliated to _ | Sant Gadge baba Amravat | University | has successful | lly passed assessment for $-$ | First |
| semester of _ | Certificate in Fres | hwator Fish Fannin | . Ses | sion 2020-2021 | |
| 2.2 | n, ⊥ esh Mansingka Chairman | | | 副《共福県 行いた。 前は14年 前は14年 | |
| Accession | Skill Council of India india.com, www.asci-india.com | | | Registration No: ASCI Date of Issuance 17 Jan | |

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|-----------------------|--|---------------------|------------------------------|---|-----------------------------|
| Mr | Gopal Santosh Hendre | Certi | ficate Santosh | (AadhaarNo: XXX) | 000005732) |
| student of | | Late Ku Darga K.B | anmeru Science Colleg | e Lonar | |
| affiliated to _ | Sant Gadge baba Amrav | ati Unive | ati has successfu | lly passed assessment for _ | First |
| semester of | Certificate in Fr | eshwater Fish Farmi | u <u>a</u> , Se | ssion 2020-2021 | |
| | esh Mansingka Chairman | | | | |
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| | ि India त-कुशल भारत | Agriculture Skill Con | | N·S·D National Skill Deve Corporati Transforming the skill www.nedcindia. | lopment on landscape |
|---------------|-----------------------------------|-----------------------|------------------------|--|----------------------------|
| - | | Certifi | | | |
| Ms | Sanjivani Dashrath Bharshankar | D/O | Dashrat | _(Aadhaar No: XXXX | XXXX3577) |
| student of _ | Late | Ku, Dureta K, Banm | eru Science College Lo | nar | |
| affiliated to | Sant Gadge baba Amravati Ur | alve:::: | has successfully p | assed assessment for | First |
| semester of | Certificate in Freshwa | ater Fish Farming | , Session | 2020-2021 | |
| Ma | N, | | | | |
| 1 | are Skill Council of India | | | Registration No.: ASCI | |
| E-Mail:info@a | aci-india.com, www.asci-india.com | | | Date of Issuance 17 Jan | 2023 |

| र्डि Skill II कौशल भारत-बु | | DI LA | SCI Skill Council of India | N-5-D-C National Skill Development Corporation Transforming the skill landscape www.nsdcindia.org |
|----------------------------------|------------------------------------|---------------------|-------------------------------|--|
| e 1 5 | | Certi | ficate | |
| Ms, | Aditi Haridas Rindhe | D/O | Haridas | (Aadhaar No: XXXXXXX8652 |
| student of | | Late Kn. Durga K. B | anmers Science Colleg | e Lonar |
| affiliated to 🔔 | Sant Gadge baba Amrava | ti University Amroy | rati has successful | lly passed assessment for First |
| semester of | Certificate in Fre | shwater ring out | ug, Ses | sion 2020-2021 |
| r Manee |) j – J psh Mansingka | | | |
| - w i co 48 | Chairman Skill Council of India | | | Registration No: ASCI/UGC/12438 |
| | india.com, www.snci-india.com | | | Date of Issuance 17 Jan, 2023 |

AmrutSevabhaviSanstha, Parbhani's

LATEKUDURGAK.BANMERUSCIENCECOLLEGE, LONAR, DIST. BULDANA.443302.

(Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)



Department of Mathematics

Certificate Course on Quantitative Aptitude





By

DepartmentofMathematics,

LateKu.DurgaK.BanmeruScienceCollege,Lonar,

Dist. Buldana. Pin.443302.

2021-22



Deptof Mathematics, Late Ku. Durga K. Banmeru Science College, Lonar Dist. Buldana

Page1

LATEKUDURGAK.BANMERUSCIENCECOLLEGE, LONAR, DIST. BULDANA.443302.

(Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)

Department of Mathematics

Introduction

Quantitative Aptitude is the most important requisite for clearing any competitive exam. Quantitative aptitude test are becoming the norm for competitive exams in India. The aptitude questions essentially measures candidatementalnumericalability,logicalformulaeapplication&accuracyof calculation.Italsotestyourmentalalertness.

Department of Mathematics of our Late Ku. Durga K. Banmeru Science college, Lonar is organizing this certificate course in order to enhance students problem solving ability and help those to student who are preparing for any type of competitive examination.

Course Objectives

- Toenhanceproblemsolvingskillamongstudent.
- To improve the mathematicalskill
- Tohelpstudentswhoarepreparingforanytypecompetitiveexamination.
- Thinkingcritically&applyingbasicmathematicsskilltointerpretdata.
- To prepare student for campus placement aptitudepapers



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Department of Mathematics

Course Outcome

On successful completion of the course, the students will able to :

- Understandthebasicconceptsofquantitativeability.
- Solvecampusplacementaptitudepaperscoveringquantitativeaptitude.
- CompeteinvariouscompetitiveexamslikeMPSC,NET/SET,CAT,GATE (aptitudepart)

Eligibility

• Student of B.scIst , IInd& IIIrd

Admission Procedure

Interested candidates have to make application to the Mathematics Department. A minimum of20 candidate are require for commencing thebatch.Firstcomefirstservebasedadmissionwillbethere.

Fee Structure

≻ Rs. 500/- Percandidate.

Attendance

Minimum 75% Attendance is necessary in theory classes to appear for finalexamination.

Certification

The Candidate successfully completing the Course shall be awarded a Certificate in appropriateform.

LATEKUDURGAK.BANMERUSCIENCECOLLEGE,

LONAR, DIST. BULDANA.443302.

(Affiliated to Sant Gadage Baba Amravati University, Amravati; UGC 2 (f) & 12 B; NAAC Accredited with 'C' grade)

Department of Mathematics

Syllabus

Unit I: Basic of Quantitative Abilities

- Problems on NumberSystem
- Problems on HCF &LCM
- Decimal &Fraction
- Simplification.

Unit II: Arithmatic Quantitative Abilities

- Averages
- Profit &Loss
- Ratio & Proportion
- Percentage

Unit III: General Aptitude Problems

- Number & Ages
- Problem onTrains
- Discount
- Partnership
- Mixture & Allegation

Unit IV:, Problems Related to Time

- Time &Work
- Time & Distance
- Calendar
- Clock

Unit V: Modern Maths

- Permutation & Combination
- Probability

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Department of Mathematics

Teaching & Examination Scheme

| Course | Teaching workload | Exam Theory | GradeSystem |
|---|-------------------------------------|---|---|
| Certificate Course in "Quantitative Aptitude " | Total 30 lectures of One Hour | (100 Marks) 50 Multiple Choice Question (each for 2 Marks) | Marks 100-81: O Grade 80-71:AGrade 70-61:BGrade 60-51:CGrade 50-00: Fail |

Recommended Books/References

- 1)R.S.Aggarwal.QuantitativeAptitudeforcompetitiveexamination.
- 2)ArunSharma-QuantitativeAptitudeforCAT.
- 3) Arihant Publications-Fasttrackobjective Arithmetic.
- 4)Abhijit Guha/Mcgraw Hill education- Quantitative Aptitude for all competitive examination.



LATEKUDURGAK.BANMERUSCIENCECOLLEGE, LONAR, DIST. BULDANA.443302.

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Department of Mathematics

Organizing Department

Department of Mathematics, Late Ku. Durga K. Banmeru Science College, Lonar ,with kind guidance of **Principal Dr. Prakash K. Banmeru sir.**

> CourseCoordinator-Prof.SaurabhP.Gaikwad

Asst. Prof. & HOD- Mathematics, Late Ku. Durga K. Banmeru Science College, Loni road, Lonar , DistBuldana 9763055670

(CourseCoordinator)

Principal



स्थापना जुन २००० (शासन क एन.जी.सी.२००० / न.म.वि. (१/२०००) म.शि. ३ दि. २८ जुन २०००) अमृत सेवाभावी संस्था, परभणी संचलीत,

के. क. दुर्गा क. बनमेरु विज्ञान महाविद्यालय,

लोणार ता. लोणार जि. बुलडाणा ४४३३०२

संाकेतांक - ३३७

नॅक मुल्यांकन प्राप्त

जा. क. :-DBSCL/2x-21/303

Raia:- 3/ 3 /2= 3

दरध्वनी क. (०७२६०)२२१३१५

To,

Hon'ble Dy. Registrar, Academic Section, Sant Gadge Baba Amrayati University, Amrayati

Subject: About Nomination of University Representative of UGC-NSQF Approved Certificate Course.

Respected Sir,

With reference to your mail in response to our letter regarding formation of <u>Skill Assessment</u> <u>Board</u> (SAB) for UGC- NSQF approved certificate course on quantitative aptitude we are giving details of Skill Assessment Board to be form for this course.

| Sr.No. | Name of Member | Designation | Remark |
|--------|---------------------|--------------------------------------|----------------------------------|
| 1 | Dr. P. K. Bnameru | Head of Institution | Brincipallaria |
| 2 | Dr. M. V. Gaikwad | UGC- Coordinator | Assist Pro b |
| 3 | Adv. Rahul Navandar | Representative from Industry Partner | Industry Pasties |
| 4 | - | University Representative | To be nominated by University |

Please accept this information and we request you to nominate the university representative for the formation of SAB for successful conduction of course.

Thanking You.

Course Coordinator

UGC Coordinator

Yours Faithfully

Candidates Name List

| Name | Result |
|-------------------|--------|
| Nikita Runwal | Pass |
| Pranita Shilvant | Pass |
| Shivkanya Mundhe | Pass |
| Sujata Waghmare | Pass |
| Vaibhav Sarkate | Pass |
| Aditya Sampal | Pass |
| Arati Lade | Pass |
| Bhushan Chordiya | Pass |
| Kavita Sanap | Pass |
| Shubhangi Surushe | Pass |
| | |









AMRUT SEVABHAVI SANSTHA PARBHANI'S LATE KU. DURGA K. BANMERU SCIENCE COLLEGE LONAR, DIST.BULDHANA-443302

(UGC-2F- 12B approved, Accredited by NAAC, affiliated to Sant Gadge Baba Amravati University Amravati

E-BROCHURE For CERTIFICATE COURCE/DIPLOMA

UNDER National Skill Qualification Framework-Union Grant Commission New Dehli NSQF-UGC APPROVED



SCOPE AND IMPORTANCE OF CERTIFICATE COURSEoday, fish provides more than one billion poor people with most of their d

"Fish provides more than one billion poor people with most of their daily animal protein."



SOURCE: WOLDFISH

The Department of Fisheries is one of the two Departments under the Ministry of Fisheries, Animal Husbandry & Dairying. It came into existence with effect from 05.02.2019 through carving out Fishery Division from the erstwhile Department of Animal Husbandry, Dairying and Fisheries vide Cabinet Secretariat's Notification F.No.1/21/21/2018-Cab dated 05.02.2019.

The Department is under the overall charge of **Shri Giriraj Singh**, **Hon'ble Minister for Fisheries, Animal Husbandry & Dairying** assisted by two Ministers of State for Fisheries, Animal Husbandry & Dairying namely Dr. Sanjiv Kumar Balyan and Sh. Pratap Chandra Sarangi. The administrative Head of the Department is Secretary Fisheries. Secretary Fisheries is assisted by two Joint Secretaries. The Department is responsible for matters relating to formulation of policy and schemes relating to Development of Inland , Marine and Coastal Fisheries and Fishery Institutes namely Fishery Survey of India Mumbai, Central Institute of Fisheries Nautical and Engineering Training (CIFNET), Kerala, Central Institute of Coastal Engineering For Fishery (CICEF), Bangalore, National Institute of Fisheries Post Harvest Technology and Training,(NIFPHATT), Kochi, National Fisheries Development Board (NFDB), Hyderabad, Coastal Aquaculture Authority, Chennai.

The list of subjects allocated to Department of Fisheries is as under:

- Fish seed production.
- Development of fish feed and fish products industry with regard to the formulation of the demand and fixation of targets.
- Promotion and development of Fishing and Fisheries (inland, marine and beyond territorial waters) and its associated activities, including infrastructure development, Marketing, Exports, and institutional arrangements, etc.
- Welfare of Fishermen and other Fisher-folk and strengthening of their livelihoods.
- Liaison and cooperation with international organizations in matters relating to fisheries development.
- Fisheries Statistics.
- Matters relating to loss of fish stock due to natural calamities.
- Regulation of fish stock importation, Quarantine and Certification.
- Fishery Survey of India, Mumbai.
- Legislation with regard to the Prevention of the extension from one State to another of infectious or contagious diseases or pests affecting fish.
- Legislation with regard to Pattern of financial assistance to various State Undertakings, Fisheries Development Schemes through State agencies/Co-operative Unions.

AMRUT SEVABHAVI SANSTHA PARBHANI'S LATE KU. DURGA K. BANMERU SCIENCE COOLEGE LONAR, DIST.BULDHANA DEPARTMENT OF ZOOLOGY RUNS NSQF-UGC APPROVED ECONOMIC ZOOLOGY CERTIFICATE COURCE-FRESHWATER AQUACULTURE FARMER SYLLABUS

| Title of unit (include any identification code used) | Mandatory/ Optional | Estimated size (learning hours: Theory) | Estimated size (learning hours: Practical) | Level |
|---|------------------------|--|---|-------|
| Bridge Module (Introduction) | Mandatory | 6 | 4 | 4 |
| AGR/N4921 Perform pre culture activities | Mandatory | 12 | 38 | 4 |
| AGR/N4922 Perform post stocking culture activities | Mandatory | 12 | 38 | 4 |
| AGR/N4923 Perform harvesting and marketing activities for freshwater organisms | Mandatory | 14 | 36 | 4 |
| AGR/N4918 Ensure safety, hygiene and sanitation practices for culture operations | Mandatory | 12 | 28 | 4 |

1. AGR/N4921 Perform pre-culture activities

| 1. AGR/N4921 Perform pre- culture activities | Assessment criteria for outcomes | Total Marks | Out Of | Theory | Skills Practical |
|---|---|----------------|-----------|--------|---------------------|
| | PC1. identify varieties of organisms (carps, catfish, murrels, freshwater prawn, etc.)suitable for culture in specific water bodies | 100 | 9 | 3 | 6 |
| | PC2. prepare pond for carp culture using appropriate methods for 1)removal of unwanted organisms 2) filling of water to requisite depth 3) eradication of predatory and weed fishes, 4) introducing preparatory dose of lime, manures and fertilizers | | 9 | 3 | 6 |
| | PC3. prepare ponds for freshwater cat fish culture (i.e. magur – Clarias batrachus) by methods such as fencing to prevent escape of fish from culture ponds | | 9 | 2 | 7 |
| | PC4. prepare ponds for crustacean culture (i.e. prawn) and provide hiding structures at the bottom of the pond | | 8 | 2 | 6 |
| | PC5. find out the source of quality seed for the desired organisms | | 8 | 3 | 5 |
| | PC6. perform seed transport with minimum stress | | 8 | 2 | 6 |
| | PC7. identify the diversified carp species for freshwater | | 8 | 3 | 5 |

| aquaculture system | | | | |
|---|-----|---|---|---|
| PC8. ensure seed stocking with due acclimatisation | | 8 | 2 | 6 |
| PC9. monitor the culture methods for variety of organisms | | 8 | 2 | 6 |
| PC10. ensure availability of suitable environment for culture of specific organisms | | 9 | 3 | 6 |
| PC11. identify culture activities of each variety of organisms in culture system | | 8 | 3 | 5 |
| PC12. perform the culture activities in the desired manner | | 8 | 2 | 6 |
| TOTAL | 100 | | | |

2. AGR/N4922 Perform post-stocking culture activities

| 2. AGR/N4922 Perform post- stocking culture activities | Assessment criteria for outcomes | Total Marks | Out Of | Theory | Skills Practical |
|--|---|----------------|-----------|--------|---------------------|
| | PC1. identify suitable water level required in culture ponds for different varieties of organisms | | 4 | 1 | 3 |
| | PC2. perform periodic soil, water and fish sampling and netting operation to ensure proper management of the crop | | 5 | 2 | 3 |
| | PC3. apply appropriate dosages of lime, manures, fertilizers and therapeutics to maintain suitable soil and water quality in the culture system | | 5 | 2 | 3 |
| | PC4. identify plankton and benthic fauna in water | | 4 | 1 | 3 |

| PC5. apply appropriate methods | | | |
|--|---|---|---|
| for aeration of water | 4 | 1 | 3 |
| PC6. apply suitable methods to control aquatic weeds and algae present in the culture system | 4 | 1 | 3 |
| PC7. identify the type of fertilizers, herbicides and chemicals required for culture system and determine their appropriate dose | 5 | 2 | 3 |
| PC8. apply the selected inputs with appropriate methods | 4 | 1 | 3 |
| PC9. anticipate the type of diseases likely to affect the organisms and take preventive measures | 5 | 2 | 3 |
| PC10. apply correct dose of medicines and know the mode of application for curing the organisms | 4 | 1 | 3 |
| PC11. sample the cultured organisms at periodic interval to estimate the biomass | 5 | 2 | 3 |
| PC12. identify the feed type and amount of daily feed ration | 4 | 1 | 3 |
| PC13. deliver the feed with appropriate method and proper schedule | 4 | 1 | 3 |
| PC14. determine the quantum of feed and its application for carp culture pond | 4 | 1 | 3 |

| fish in the quarantine tank for signs of improvement | 4 | 1 | 3 |
|--|---|---|---|
| PC22. treat as per prescription at recommended dose of the therapeutics PC23. monitor the condition of | 4 | 1 | 3 |
| PC21. diagnose the problem/disease with the help of an expert/disease diagnosis laboratory | 4 | 1 | 3 |
| PC20. separate the diseased fish from the healthy fish and put them in a quarantine tank, in case of disease outbreak | 5 | 2 | 3 |
| PC19. determine the correct dose of medicines / disinfectants required to cure diseases | 4 | 1 | 3 |
| PC18. determine health parameters to judge the condition of organisms in culture system | 4 | 1 | 3 |
| PC17. modify the feed ration according to the environmental condition and season | 4 | 1 | 3 |
| PC16. treat the pond area where feed is delivered to maintain the cleanliness, periodically | 5 | 2 | 3 |
| PC15. monitor the feed consumption and modify the daily ration accordingly | 5 | 2 | 3 |

3. AGR/N4923 Perform harvesting and marketing activities for freshwater organisms

| 3. GR/N4923 Perform harvesting and marketing activities for freshwater organisms | Assessment criteria for outcomes | Total Marks | Out Of | Theory | Skills Practical |
|--|--|----------------|-----------|--------|---------------------|
| | PC1. decide on the harvesting time and ensure timely harvesting of freshwater organisms | 100 | 11 | 3 | 8 |
| | PC2. use harvesting net with appropriate mesh size | | 11 | 3 | 8 |
| | PC3. ensure harvest of only the marketable size organisms in case of partial harvesting | | 11 | 4 | 7 |
| | PC4. estimate the approximate quantity to be harvested | | 11 | 3 | 8 |
| | PC5. identify markets where harvested organisms can fetch reasonable price | | 11 | 3 | 8 |
| | PC6. identify demand of organisms in the market to overcome situation compelling distress | | 12 | 4 | 8 |
| | PC7. pack and transport harvested organisms in good condition | | 11 | 3 | 8 |
| | PC8. maintain a record of harvest and sale proceeds | | 11 | 3 | 8 |
| | PC9. record cost of inputs and other miscellaneous expenditures | | 11 | 4 | 7 |
| | Total | 100 | | | |

4. AGR/N4918: Ensure safety, hygiene and sanitation practices for culture operations

| 4. AGR/N4918: Ensure safety, hygiene and sanitation practices for culture operations | Assessment criteria for outcomes | Total Marks | Out Of | Theory | Skills Practical |
|---|---|----------------|-----------|--------|---------------------|
| | | 100 | | | |
| | PC1. ensure suitable measures for protection of from natural calamities such as flood, protect dyke from erosion or break | | 5 | 2 | 3 |
| | PC10. apply effective systems and routines to ensure healthy and hygienic conditions during all stages of fish culture including transportation and marketing | | 5 | 2 | 3 |
| | PC11. ensure that the fish culture premises are constantly monitored/inspected for breaches in the protection provided by health and hygiene measures | | 5 | 2 | 3 |
| | PC12. undertake basic safety checks before operation of any equipments | | 5 | 2 | 3 |
| | PC13. wear protective clothing and gear as and when required and ensure adherence to safety guidelines | | 5 | 1 | 4 |
| | PC14. report potential hazards to the supervisor immediately | | 4 | 3 | 3 |

| PC15. follow standard procedure to deal with accidents and emergency situations | 2S | 5 | 2 | 3 |
|--|----|---|---|---|
| PC16. use first aid kit as and when required and provide appropriate treatment in case of any injuries | | 5 | 1 | 4 |
| PC17. ensure maintenance of suitable soil and water quality parameters at all times with frequent tests | | 5 | 2 | 3 |
| PC18. ensure specified feed is provided to organisms at regular intervals and excess feeding is avoided | | 5 | 2 | 3 |
| PC19. carry out regular inspection of organisms for possible presence of parasites, pathogenic infections, any phenotypic disorder, spot, etc. which are usually the signs of ailments or disease outbreak | | 5 | 2 | 3 |
| PC20. ensure all nets, utensils and vessels used are decontaminated and clean | | 4 | 1 | 3 |
| PC21. implement effective security measures for prevention of theft/sabotage | | 5 | 1 | 4 |





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| SR. NO | MONTHS | PARTICULAR | REMARKS |
|--------|------------|--------------------------------------|---------|
| 1 | Dec- | - Course approval | |
| | Jan-2021 | - E–Boucher | |
| | | - Publicity | |
| | | - Students entry /Admission | |
| | | - Skill Assessment board meeting SAB | |
| 2 | Jan-Feb- | - Commencement t of online classes | |
| | 2021 | - Organic of Guest lecturer | |
| | | - Practical etc. | |
| 3 | Feb-March- | - Guest Lectures | |
| | 2021 | -SAB – meeting for Department | |
| | | -Tour arrangement | |
| | | -Training of Students. | |
| 4 | March- | - Test | |
| | April-2021 | -Exams | |
| | | - Result | |
| | | - Certificate | |
| 5 | March- | - Uploading of marks /Students data | |
| | April-2021 | | |

rediffmail

Subject: Approval of fresh programmes / courses under NSQF for the vear 2020-21

Mailbox of dr.milinda 2010

From: nsqfugc2020@gmail.com on Thu, 22 Oct 2020 17:52:43

To: dr.milindg_2010@rediffmail.com

Dear Sir/Madam,

This is with reference to your application for skill-based programmes / courses. I am directed to convey that your institution may run the following fresh programmes / courses under National Skills Qualifications Framework (NSQF) during the academic session 2020 - 2021:

| Programme/s | Course/s |
|-------------|--|
| Certificate | ECONOMIC ZOOLOGY |
| Certificate | Quantitative Aptitude for Competitive Examination |
| Certificate | Industrial Chemistry |
| Certificate | Herbal Medicine |
| Diploma | Renewable Energy |

The institution must adhere to the following terms and conditions:

The institutions shall run the courses in accordance with the provisions of the UGC Guidelines for Providing Skill-based Education under National Skills Qualifications Framework.

The institution shall meet the requirements of infrastructure and laboratory facilities for running the skillbased courses.

The institutions which are recommended for running skill courses in the fields like medical, law etc. shall meet the parameters specified by the respective regulatory bodies/professional councils before starting those courses.

The institutions shall run the courses on regular mode only and the courses shall not be run on online/distance education mode and through franchise agreement / arrangements.

The institution shall furnish details regarding students admitted (course-wise) for the forthcoming academic session on the online portal by 30.11.2020. The link to the portal is https://nsqf.ugc.ac.in/ With regards,

Yours faithfully,

(Dr. Mriganka Sekhar Sarma) (Education Officer)

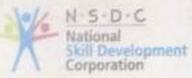
Late Ku. Durga K. Banmeru Science College Shivaji Colony, Mehkar i Road, Lonar, Tq. Lonar, Dist. Buldhana, M.S. India

last date - 31 - becenter - 2020









| Ms. | Akansha G. Darade | D/O | Ganes | | (Aadhaar No: XXXXXXX5505) |
|------------|---|---------------------|---------|-----------|---|
| student of | Late Ku. Durga K. Banmeru Scier | nce College Lonar | affilia | ited to | S.G.B.A.U Amravati |
| | | illy passed assessi | | First | semester of 2020-21 |
| | \mathcal{O}_{1} | reshwater Aquacu | Iture | , Session | |
| Agricultur | eesh Mansingka Chairman e Skill Council of India i-india.com, www.asci-india.com | | 0 | | Registration No. ASCI/UGC/9540 Date of Issuance 15 Dec. 2021 |



| िंग्ले Skill India कौशल भारत - कुशल भारत | | CI I Council of India | M S · D · C National Skill Development Corporation Transforming the skill landscape www.nsdcindia.org |
|--|--|--------------------------|--|
| 7 | Certif | icate | |
| Ms. Aarti S.C. student of Late Ku. Durg | henge D/O | Surestha | (Aadhaar No: XXXXXXXX2624) S.G.B.A.U Amravati |
| student of | has successfully passed assess Certificate in Freshwater Aquaci | 1 | semester of 2020-21 |
| Maneesh Mansingka Chairman Agriculture Skill Council of In E-Mail into@asci-india.com, www.asci-i | idia | alture, Session | Registration No. ASCI/UCC/9549 Date of Issuance 15 Dec, 2021 |







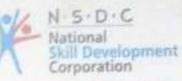


| Mr. | Pawan G.Yewle | e S/O | Gajana | in | (Aadhaar No: XXXXXXX3806) |
|--------------------|---|------------------------------|----------|---------|---|
| student of | Late Ku. Durga K. Ba | anmeru Science College Lona | raffili | ated to | S.G.B.A.U Amravati |
| | | as successfully passed asse | | First | semester of 2020-21 |
| r | $)_1 \rightarrow$ | rtificate in Freshwater Agua | nculture | Session | |
| C Agriculture S | sh Mansingka hairman Skill Council of India ndia.com, www.asci-india.com | EL LO | N. C. | | Registration No: ASCL/UGC/9546 Date of Issuance 15 Dec. 2021 |







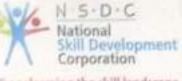


| Mr. | Mufiz Ahemad Sk.Kabir S/O | Kabir | (Aadhaar No: XXXXXXX6830) |
|------------------------------|---|---------------|--|
| student of | Late Ku. Durga K. Banmeru Science College Lonar | affiliated to | S.G.B.A.U Amravati |
| | has successfully passed assessme | ent for | semester of |
| | Certificate in Freshwater Aquacul | ture, Session | 2020-21 |
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| Mar | neesh Mansingka Chairman | | |
| and the second second second | re Skill Council of India ci-india.com, www.asci-india.com | | Registration No.: ASCI/UGC/9547 Date of Issuance 15 Dec, 2021 |









| Mr. | Vaibhav P. Gadekar S/O | Purushottam | (Aadhaar No: XXXXXXX4049) |
|------------|--|----------------|--|
| student of | Late Ku. Durga K. Banmeru Science College Lonar | affiliated to | S.G.B.A.U Amravati |
| | has successfully passed assess | sment forFirst | semester of |
| | Certificate in Freshwater Aquad | culture, Sessi | on2020-21 |
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| | eesh Mansingka Chairman e Skill Council of India | | Registration No.: ASCI/UGC/9537 Date of Issuance 15 Dec, 2021 |
| | i-india.com, www.asci-india.com | No. | |









| Mr | Vaibhav S. More | s/o | Suresh | (Aadhaar No: XXXXXXX3248) |
|------------|---|---|------------|---|
| student of | Late Ku. Durga K. Banmeru Scie | Late Ku. Durga K. Banmeru Science College Lonar | | S.G.B.A.U Amravati |
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| | eesh Mansingka | | | 是的现代形式 自然实际的 |
| Agricultur | Chairman e Skill Council of India i-india.com, www.asci-india.com | | | Registration No: ASCI/UGC/9545 Date of Issuance 15 Dec, 2021 |



| | ASCI | Marks Sheet | | | | |
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| 1 | GIGAR D. DAVIOUS | Dottabrya | | | | |
| 2 | Rachna S. Rodhhe | Surandra | | | | |
| 3 | Valbhav P. Gadekar | Punishettian | | | | |
| 4 | Buchha S. Kocher | Jakhimi | | | | |
| 3 | Payel P. Shanna | Provin | | | | |
| | Aliamha G. Danaile | Ganesh | | | | |
| 7 | Sevel 8. Marothe | Kaltsh | | | | |
| 4 | Kanchan S. Garkat | Saliharam | | | | |
| 5 | Pawan L'Tanpura | Januardham | | | | |
| 10 | Shakhangi Enlewar | Frukash | | | | |
| 11 | Valahav S.Mure | Suresh | | _ | | |
| 12 | Parken G.Yewie | Gajanan | | | | |
| 18 | Mutte Alternad Sk. Kahir | Kalair | | | | |
| 34 | Mohan G. Bhivende | Gajanan | | | | |
| 15 | Aarti 5. Chenge | Sumitica | | | | |
| 36 | Soehal 5. Destauande | Suremira | | | | |
| 17 | Valsheurel 5. Sirvat | Suresh | | | | |
| 18 | Antol A. Palve | Ashos | | | | |
| 19 | Vallature II. Samuel | Bamilas | | | | |
| 10 | Lasses M.Terkad | Mingoshapura | | | | |

Accessor Signature

Princhal Han Durga K. Banmers Science College

